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#### (54) Broadcast receiver

(57) Provided are a broadcasting signal receiving apparatus and a channel scanning method which are capable of scanning any desirable plurality of channels quickly by providing the channel scan function using information on a plurality of multiplexer (MUX) numbers, wherein the broadcasting signal receiving apparatus, in-

cludes a tuner unit; a memory which stores information related to a plurality of MUX numbers intended to be scanned; and a control unit which performs a channel scan by providing the information related to the MUX numbers stored in the memory to the tuner unit consecutively in accordance with an input of a prescribed scan instruction.

FIG. 2

		NO	CHANNEL	FREQUENCY	BANDWIDTH		
U100		1	21	474000 Khz	8 Mhz		
		2	22	482000 Khz	8 Mhz		
		3	55	746000 Khz	8 Mhz		
		4	63	810000 Khz	8 Mhz	11 1	
	$\nabla$	5	68	850000 Khz	8 Mhz	$ \nabla $	
U200 {	CHANNEL FREQUENCY BANDWIDTH  21 474000 KHz 8 MHz						
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## **EUROPEAN SEARCH REPORT**

**Application Number** EP 06 12 1935

	DOCUMENTS CONSID	ERED TO B	E RELEV	ANT		
Category	Citation of document with ir of relevant pass		appropriate,		Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Х	US 2004/105031 A1 ( 3 June 2004 (2004-0		TORU [JF	-	1-4, 6-11, 13-15	INV. H04N5/445
Υ	* paragraph [0028] figures 1-4 *	- paragrap	h [0032]		5,12	
Υ	US 2003/163830 A1 ( 28 August 2003 (200 * paragraph [0093];	3-08-28)		į	5,12	
Х	US 2004/194135 A1 ( 30 September 2004 (			1-4, 6-11,		
	* figures 1-4 *				13-15	
Х	US 2002/196375 A1 ( ET AL) 26 December			[JP] :	1,8	
Α	* figures 3-6 *		12-20)	1	2-7,9-15	
						TECHNICAL FIELDS SEARCHED (IPC)
						H04N
	The present search report has I	peen drawn up fo	r all claims			
	Place of search	Date of	completion of the	search		Examiner
	Munich	22	January	2009	Bro	d, Rosemarie
X : part Y : part docu	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anotly ment of the same category inological background	ner	E : earlier after th D : docum L : docum	patent docur e filing date ent cited in the ent cited for c	underlying the in ment, but publis he application other reasons	
O : non	-written disclosure rmediate document			er of the sam		corresponding

### ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 06 12 1935

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

22-01-2009

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2004105031	A1	03-06-2004	JP JP	4145133 2004186975		03-09-200 02-07-200
US 2003163830	A1	28-08-2003	KR	20030070292	Α	30-08-200
US 2004194135	A1	30-09-2004	NON	E		
US 2002196375	A1	26-12-2002	JР	2002369087	Α	20-12-200

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82